Datasheet | EC55



General Purpose AC EMI Filter



^{*}Image shown is for illustrative purpose only

Features and benefits

- Filters available in Single stage & double stage.
- All filters provide high attenuation performance.
- Two stage filters designed for noisy application requiring excellent filter performance.
- High reliable
- Easy and fast chassis mountable filter with compact size.
- CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- General purpose filters with low leakage current for safety critical application.
- Various terminal options are available.

Application

- Defence application
- Industrial application
- Automotive application
- Weighting Machines
- Printing Machinery
- Electrical equipment application
- Office automation equipment

Conformance





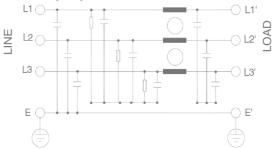
Technical specifications

Operating voltage	440VAC (P-P)
Current rating	80A - 150A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P -> P 2121VDC (applicable for general purpose filter)
Insulation resistance	\geq 300 M Ω @ 500VDC (P \rightarrow E)
Operating temperature	40°c /-25°c +85°C

Attenuation type

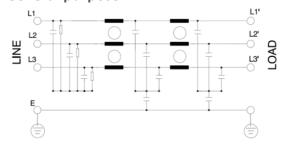
Single Stage	Standard
Double Stage	High

Electrical schematic for Single Stage Filter: General purpose –



Electrical schematic for double stage filter:

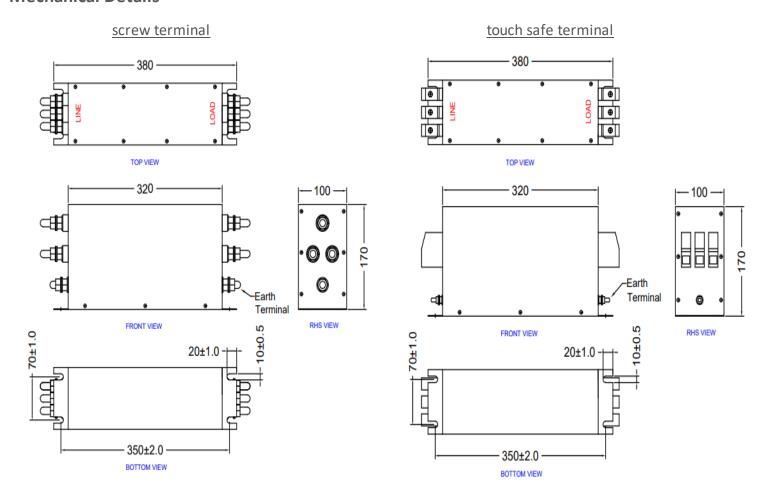
General purpose -



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Mechanical Details



All dimensions in mm General tolerance =±2%

Filter Selection Table

		Rated	Leakage	Terminals (≚)		Approx. Weight (Kg)	Attenuation
Sr. No.	No. (ordering code) rat	Current rating (A) @40°c	rating (A) (mA)	Screw	Touch safe		
1	EF-3A080 <u>X</u> 01G-C55	80	< 3.5	D	F	5	Standard
1	EF-3A100 <u>X</u> 01G-C55	100	< 3.5	D	F	5	Standard
2	EF-3A120 <u>X</u> 01G-C55	120	< 3.5	D	F	6	Standard
3	EF-3A150 <u>X</u> 01G-C55	150	< 3.5	D	F	6	Standard
4	EF-3A080 <u>X</u> 20G-C55	80	< 3.5	D	F	6	High
5	EF-3A100 <u>X</u> 20G-C55	100	< 3.5	D	F	6	High
6	EF-3A120 <u>X</u> 20G-C55	120	< 3.5	D	F	7	High
7	EF-3A150 <u>X</u> 20G-C55	150	< 3.5	D	F	7	High

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-3A080 01G-C55)
- Maximum leakage under usual AC operating conditions (acc. IEC 60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.
- Customize products provided on request.

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Connection Method

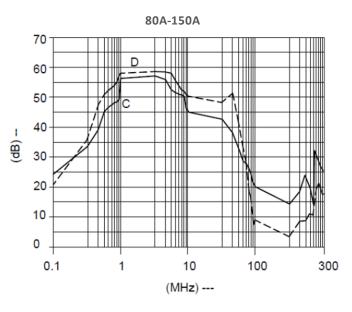
Current	Screw terminal details		Touch safe terminal details			
Rating (A)	Screw	Recommended tightening torque	Touch safe	Recommended tightening torque	Earthing screw terminal details	
80	M8	25-30Kgcm	16 sq.mm.	22-25 lbf.in	M8	
100	M10	35-40 Kg Cm	50 sq.mm.	38-40 lbf.in	M10	
120	M10	35-40 Kg Cm	50 sq.mm.	38-40 lbf.in	M12	
150	M12	35-40 Kg Cm	50 sq.mm.	38-40 lbf.in	M12	

Filter attenuation graph

C = Common mode (asymmetrical) ————

D = Differential mode (symmetrical) -----

Graph for filter for single stage



Graph for filter for double stage

